

BID SOLICITATION NOTICE

TO RECEIVE A BID PACKAGE, BIDDERS MAY EITHER DOWNLOAD THE REQUEST FOR BIDS ("RFB") FROM THE AUTHORITY'S WEBSITE AT <http://www.state.nj.us/turnpike/purchasing.html> OR REQUEST A BID BY COMPLETING THIS FORM AND FAXING IT TO THE NUMBER STATED BELOW. FOR RECORD KEEPING PURPOSES, THE AUTHORITY REQUESTS THAT THE BIDDER COMPLETE THIS FORM AND RETURN IT TO THE PROCUREMENT AND MATERIALS MANAGEMENT DEPARTMENT, EVEN WHEN A BIDDER IS DOWNLOADING THE RFB. THIS IS THE ONLY NOTICE OF BIDDING FOR THE FOLLOWING GOODS.

THE NEW JERSEY TURNPIKE AUTHORITY PROCUREMENT AND MATERIALS MANAGEMENT DEPARTMENT

New Jersey Turnpike Administrative Offices
P.O. Box 5042, 581 Main Street
Woodbridge, New Jersey 07095-5042
Tel. - 732-750-5300 Ext. 8640 Fax - 732-750-5399

TITLE: **AERIAL BUCKET TRUCK**
BID NO: **R-113074**
DUE DATE: **January 28, 2015**
TIME: **11:00 am**

SUBMIT BIDS BEFORE THE DUE DATE AND TIME STATED ABOVE TO THE ABOVE ADDRESS

BIDDER INFORMATION (PLEASE PRINT)

NAME OF BIDDING ENTITY

ADDRESS

CITY, STATE AND ZIP CODE

E-MAIL ADDRESS

REPRESENTATIVE TO CONTACT-NAME & TITLE

TELEPHONE NO

FEDERAL TAX I.D. NO. or TAXPAYER I.D. NO

FAX NO

☐

WE HAVE DOWNLOADED THE BID FROM THE AUTHORITY WEBSITE

THE NEW JERSEY TURNPIKE AUTHORITY
PROCUREMENT AND MATERIALS MANAGEMENT DEPARTMENT

New Jersey Turnpike Administrative Offices
P.O. Box 5042, 581 Main Street
Woodbridge, New Jersey 07095-5042
Tel. - 732-750-5300 Fax - 732-750-5399

REQUEST FOR BID

TITLE: **AERIAL BUCKET TRUCK**
BID NO: **R-113074**
DUE DATE: **January 28, 2015**
TIME: **11:00 am**

SUBMIT BIDS BEFORE THE DUE DATE AND TIME STATED ABOVE TO THE ABOVE
ADDRESS

BIDDER INFORMATION
(TO BE COMPLETED BY THE BIDDER)

BIDDER INFORMATION (PLEASE PRINT)

NAME OF BIDDING ENTITY

ADDRESS

CITY, STATE AND ZIP CODE

E-MAIL ADDRESS

REPRESENTATIVE TO CONTACT-NAME & TITLE

TELEPHONE NO

FEDERAL TAX I.D. NO. or TAXPAYER I.D. NO

FAX NO

_____ BUSINESS CORPORATION _____ PARTNERSHIP _____ INDIVIDUAL

_____ OTHER (SPECIFY) _____

SECTION I

A. INTRODUCTION

The New Jersey Turnpike Authority (the “Authority”) was created by an act of the New Jersey Legislature in 1948, known as the New Jersey Turnpike Authority Act (as amended and supplemented, “Act”). The Act authorizes the Authority to construct, maintain, repair, and operate the New Jersey Turnpike, to collect tolls, and to issue Turnpike Revenue Bonds or Notes, subject to the approval of the Governor, payable from tolls and other revenues of the Authority. On May 27, 2003, the Act was amended to empower the Turnpike to assume all powers, rights, obligations and duties of the New Jersey Highway Authority (the “Highway Authority”), which owned and operated the Garden State Parkway and PNC Bank Arts Center. On July 9, 2003, the Authority assumed all powers, rights, obligations and duties of the Highway Authority. The Authority currently operates both the Garden State Parkway (“GSP”) and the New Jersey Turnpike (“Turnpike”) (both roads are collectively referred to herein as the “Roadways”).

The Authority is governed by an eight member Board of Commissioners (“Board”). The Governor of New Jersey appoints each of its members and has the statutory authority to overturn an action of the Board by vetoing any Board action within 10 days of receiving the minutes of the meeting. The Board authorizes awards of all public contracts over \$35,000, except in cases where it has delegated authority to the Executive Director.

This bid solicitation is being conducted pursuant to the Authority’s enabling statute as found in N.J.S.A. 27.23-6.1 and Executive Order number 37 (Corzine 2006) and the regulations and policies of the Authority with regard to public bid procurement.

B. BIDDER GUIDELINES/CHECKLIST

BIDS THAT FAIL TO CONFORM TO THE FOLLOWING REQUIREMENTS MAY BE REJECTED:

1. The Request for Bids ("RFB"), including specifications and related bid documents ("Bids") must be received at or before the due date and time stated on the cover page at the following place: New Jersey Turnpike Authority, Administration Building, 581 Main Street, Woodbridge, New Jersey 07095. Late Bids will be returned unopened. Telephone or facsimile Bids will not be accepted.
2. The entity submitting a Bid ("Bidder") must provide one original and one copy of the Bid. The Bid must include all price information. Bid prices shall include delivery of all items F.O.B. destination or as otherwise provided. Price quotes must be firm through issuance of contract.
3. All Bid prices must be typed or written in ink. Quote the specified unit of measure. If bidding an alternate, provide detailed specifications.
4. All corrections, white-outs, erasures, re-striking of type, or other forms of alteration or the appearance of alteration, to unit and/or total prices must be initialed in ink by the Bidder.
5. The Bidder must attend the mandatory site inspection at the following date(s) and time(s) if applicable:
6. If checked this RFB requires the following mandatory document(s) or the Bid **will** be rejected:
 - (a) Bid Bond or Cashier's Check for 10% of the amount Bid or a Letter of Surety ☒
 - (b) Stockholder/Partnership Disclosure Statement ☒
7. See the Authority's Instruction to Bidders for a complete list of the Authority's standard contract Terms and Conditions, as well as required forms that must be included with the Bid (**ATTACHED**).

The following checked documents are required for this Bid. Failure to submit the required forms may result in the rejection of the Bid.

- (a) State of New Jersey Division of Revenue Business Registration Certificate ☒
 - (b) Certification of Registration with the Secretary of State (only if non-NJ corporation) ☒
 - (c) Acknowledgement of requirement for Disclosure of Political Contributions (ELEC) ☒
 - (d) Public Works Contractor Registration Certificate(s) (if applicable) ☐
 - (e) Affirmative Action Information Sheet with Certificate or Form AA302 ☒
 - (f) Signed Mandatory Equal Employment Opportunity Language ☒
 - (g) SBE/WBE/MBE Certificates and Form ☒
 - (h) Vendor Disclosure Form (EO129-Location of Services) ☒
 - (i) Notice of Set-Off for State Tax (P.L. 1999, c 159) ☒
 - (j) Automobile Insurance Liability Waiver ☐
 - (k) Insurance Certificate ☒
 - (l) Disclosure of Investment in Iran ☒
8. Bidder must sign Bid ☒
 9. Three year Open Option Clause ☒

SECTION II

A. INTENTION

1. Sealed Bids for **R-113074** must be received at the New Jersey Turnpike Authority Administrative Offices, 581 Main Street, Woodbridge, New Jersey 07095-5042, by the due date and time stated on the cover page of this “RFB” at which time and place said Bid will be opened and read in public.
2. Bidders mailing Bids should allow for their normal mail delivery time to ensure timely receipt of the Public Bids. **Please be advised that using an overnight/next-day delivery service does not guarantee overnight/next-day deliveries to our location. The Authority will not be responsible for any Bid not being received by the required date and time.**
3. It is the intention of the Authority to issue a purchase order or notice of award for a price agreement for the procurement of one **AERIAL BUCKET TRUCK**.
4. Items purchased under this contract will be delivered as directed by the Authority.
5. Please contact Richard Bava with any questions regarding this procurement contract at 732-750-5300 x-8636, or rbava@turnpike.state.nj.us.

B. BID SHEET INSTRUCTIONS

1. Bidders must follow all instructions in this RFB and in the Instructions to Bidders issued by the Authority, and any other documents issued by the Authority in connection with this RFB (collectively, “Bid Documents”).
2. Bidders must examine the bid documents carefully before bidding and must ask the Director of Procurement and Materials Management Department (“PMM”) in writing for any interpretation or correction of any apparent ambiguity, inconsistency or apparent error therein. If necessary, an interpretation or correction to the specifications shall be issued by the Director of PMM in response to inquiries and/or addendum shall be faxed to Bidders who have obtained the Bid Documents. Upon the issuing of an addendum, the addendum shall become part of the bid documents. **Requests for interpretation or correction shall be considered only if received at least 5 business days prior to the Bid opening date.**
3. Written requests can be submitted by FAX at 732-750-5399.
4. The submission of the Bid is conclusive evidence that the Bidder is fully aware of the conditions, requirements, and details as stated in the Bid Documents. If the Bidder, prior to submitting its Bid, fails to notify the Director of PMM of the existence of an ambiguity or inconsistency in the Bid Documents, a Bid will conclusively be presumed to have been based upon the Authority’s interpretation of such ambiguity or inconsistency.

5. All erasures, interpolations or other physical changes on the Bid form shall be signed or initialed by the Bidder. Bids containing any conditions, omissions, erasure's, alterations, or items not called for in this "RFB" or irregularities of any kind, may be rejected by the Authority, in its sole discretion.

The Bidder shall not attach conditions, limitations or provisos to their Bid, except in cases where "exceptions" are permitted.

6. **The Authority will accept Approved Equivalent items on this Bid.** If a Bidder is basing the proposal on items other than what is specified, and wishes the items proposed to be considered as an "Approved Equivalent", the Bidder shall enter a price on the Bid sheet then submit on the Exception Sheet in the exact format of the line item on the RFB contained herein, the item number, an item description including manufacturers name, model number, informational brochure(s), and packaging quantities of those items that the Bidder proposes to substitute.

C. BASIS OF AWARD

1. **Bidders must supply a price for every item listed. Bids not having a price for all listed items may be rejected.**
2. **Bidders must quote only one price per line item. If a Bidder quotes multiple prices per line item, the Bid may be rejected.**
3. The Authority will purchase amounts of any given item as needed, at the sole discretion of the Authority and shall not be bound by any quantities listed. The Authority reserves the right to make reasonable increases or decreases to line item quantities.
4. All items are to be Bid FOB Destination. All shipping, handling, and other costs should be considered in the Bid price.
5. The Authority is tax exempt from New Jersey Sales and Excise Tax.
6. Award will be made to the lowest responsive Bidder for the total line items Bid.

D. MISCELLANEOUS

1. Delivery Date _____
(Insert if applicable)
2. Payment Terms: The Authority's standard payment terms are Net 30 days. Prompt payment discounts may be offered and must be a minimum of 10 days.
3. Discount: Maximum time period: _____ Percentage: _____

Note: Although prompt payment discounts will not be considered in determining low Bid, the Authority reserves the right to take advantage of any such discounts offered.

BID PRICE SHEET

ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL DOLLAR AMOUNT
1	1	EA	AERIAL BUCKET TRUCK, AS PER ATTACHED SPECIFICATIONS	\$	\$

ANY INQUIRIES CONCERNING THIS BID MUST BE SENT VIA FAX TO 732-750-5399
NO LATER THAN FIVE (5) BUSINESS DAYS BEFORE BID OPENING

NEW JERSEY TURNPIKE AUTHORITY

Andrea E. Ward
Director, PMM Department

_____/_____
Name of Company / Authorized Signature of Bidder

E. SIGNATURE PAGE

1. **ADDENDA / INQUIRIES:** COMPLETE (if applicable) BEFORE SUBMITTING BID:

Receipt of Addendum/Inquiries # _____ dated _____ is hereby acknowledged.

Receipt of Addendum/Inquiries # _____ dated _____ is hereby acknowledged.

☐

CHECK BOX IF NO ADDENDA/INQUIRY ISSUED

(All Addenda / Inquiries must be acknowledged as indicated above.)

2. **BID IRREVOCABLE:** This offer shall be irrevocable for ninety (90) working days after the date on which the Authority publicly opens this Bid except in those instances where an unsuccessful Bidder has filed a bid protest pursuant to N.J.A.C. 19:9-2.12. Upon notification of a protest, Bidders are required to hold their prices for an additional 90 days. All Bidders will be notified in writing of the action taken by the Authority.
3. **OFFER/CERTIFICATION:** The undersigned offers and agrees to furnish to the New Jersey Turnpike Authority the services and/or materials in compliance with all terms, conditions, specifications and addenda of the RFB, Bid Documents, and resulting contract. The undersigned further certifies understanding and compliance with the requirements of the standard terms and conditions as stated in the Instructions to Bidders included with the Bid Documents. The undersigned certifies that he or she executes this Bid with full authority so to do; and that all statements contained in this Bid and in this certification are true and correct, and made with full knowledge that the Authority relies upon the truth of the statements contained herein and in any statements requested by the Authority showing evidence of qualifications in awarding the contract.

I certify that the foregoing statements made by me are true. I am aware that if any of the foregoing statements made by me are willfully false, I am subject to punishment.

4. **AUTHORIZED SIGNATURE:** _____

Print Name and Title: _____

Bidder: _____

Address: _____

City _____ State _____ Zip: _____

E-mail address: _____

Telephone #: _____ Fax #: _____

Date: _____

SECTION III

NO RESPONSE BID SURVEY

BID REQUISITION NUMBER: R-113074

BID TITLE: AERIAL BUCKET TRUCK

If you do not choose to respond to this Bid, please complete the form below:

Name of Company _____

Reason you did not respond (Check all that apply):

_____ Cannot supply product or service

_____ Cannot meet technical specifications

_____ Cannot meet delivery specifications

_____ Cannot meet legal requirements
(i.e. Bid/performance/security/insurance, etc.)

_____ Cannot provide a competitive price at this time

_____ Interested in receiving specifications for informational purposes only

_____ Insufficient lead time to respond

_____ Other:(please be specific) _____

_____ Do you wish to remain on our mailing list?

_____ Yes _____ No

Additional comments: _____

Signed (optional): _____

Company: _____

ADDITIONAL YEARS PURCHASING OPTION, for R-113074

BID TITLE: AERIAL BUCKET TRUCK

3 - Year Open End Option: The Authority shall have the option for one (1) Model Year* from the date of Contract, to order additional units conforming to the requirements of these specifications at the same price and under the same terms and conditions as those contained herein.

The Authority shall further have the option to purchase additional units conforming to these specifications for two (2) additional Model Years. Any unit(s) offered during the two (2) subsequent Model Years shall be of the model equivalent to that specified herein. In the latter instances, if there have been any price changes, the vendor shall submit a request to the Authority covering the aforesaid price changes, and shall include appropriate explanation and justification for any such price changes.

Any such request for price adjustment shall be in writing and directed to the Director, Procurement and Materials Management Department and shall be accompanied by the following evidence as a basis for your request;

1. The published price lists for equipment, which were in effect at the time of your original proposal.
2. The equivalent published price lists in effect at the time of your request.
3. Any additional evidence which the Authority deems necessary in the evaluation of your request.

The Authority shall, within its sole discretion, have the right to accept the price changes proposed by the vendor or if it so desires, re-bid the requirement.

*Model Year is defined as the Model Year of the Manufacturer of the unit(s) offered by you in this Request for Quotation. In that instance where proposals are for equipment for which "Model Year" and "Production Cut-Off Dates" are undefined or non-existent, the "Model Year" is defined, for bid purposes, as one calendar year from the date on which the Contract is accepted. The last date on which orders may be placed for the Model currently in effect is_____.

NEW JERSEY TURNPIKE AUTHORITY

GENERAL INSTRUCTIONS AND SPECIFICATIONS FOR:

60 FOOT WORKING HEIGHT DUAL-MAN SINGLE BUCKET, ARTICULATING, TELESCOPING INSULATED AERIAL UNIT AND ACCESSORIES

Quantity	Description	Maximum Delivery Date
1	60' Working Height Dual-Man Single Bucket Articulating, Telescoping Insulated Aerial Unit and Accessories	240 Days After Receipt of Order

SPECIFICATIONS:

ATDMAU-2015: ARTICULATING TELESCOPING DUAL-MAN AERIAL UNIT

COMPLIANCE WITH RULES AND REGULATIONS: The unit and associated equipment furnished must comply with all Federal and State Motor Vehicle Safety Laws and Regulations and shall be capable of passing the New Jersey State Motor Vehicle Inspection Laws, where applicable.

ENERGY STAR REQUIREMENTS: If applicable for items specified in bid package, the vendor must provide products that earn ENERGY STAR and meet the ENERGY STAR specifications for energy efficiency. The vendor is encouraged to visit energystar.gov for complete product specifications and updated lists of qualifying products. The ENERGY STAR label must also be affixed to each delivered item. The bidder's signature on the signature page certifies that items so indicated that have earned ENERGY STAR and meet the ENERGY STAR specifications or other standards for energy efficiency will be supplied.

ERRORS AND OMISSIONS: Inadvertent omissions or errors in the attached specifications must be brought to the attention of the New Jersey Turnpike Authority's Director of Procurement and Materials Management at 732-750-5300 before bid submission date. If, with knowledge of such error or omission and prior to the correction thereof, the bidder proceeds with any work affected hereby, they shall do so at their own risk and the work so done shall not be considered as work done under and in performance of this Agreement unless and until approved and accepted.

PILOT MODEL: Questions, which arise before or during the preparation of the pilot model, shall be addressed in writing via e-mail from the vendor to Peter Perperas (Project Supervisor), perperas@turnpike.state.nj.us at the New Jersey Turnpike Authority on a not to delay basis.

The awarded bidder shall make available one **fully completed** pilot model for inspection and approval by the Authority. The unit shall be transported (responsibility of the awarded vendor) to the NJTA Garden State Parkway Division's Telegraph Hill Maintenance Facility located at Garden State Parkway Exit 116 in Holmdel, NJ 07733.

DELIVERY INSTRUCTIONS:

- A. Vendor must contact Peter Perperas (Project Supervisor) at 732-442-8600 ext. 2868 for authorization to schedule date and time prior to delivery. **Deliveries shall be made to the NJTA Garden State Parkway Division Telegraph Hill Central Maintenance Facility located at GSP Exit 116 in Holmdel, NJ 07733.**
- B. Vendor shall be responsible for all delivery, shipping and pick-up expenses.
- C. All units must be pre-delivery serviced, completely assembled, operational, and cleaned prior to Authority delivery.
- D. The following administrative package **must** accompany all deliveries:
- Certificate of Origin: stamped "Sales Tax Satisfied" and shall be made out to New Jersey Turnpike Authority, 581 Main St. Woodbridge, NJ 07095. Certificate of Origin shall have current date and be hand delivered to Peter Perperas after final acceptance of complete order.
 - Invoice: purchase order number must be displayed on vendors invoice. Invoice shall have current date and be hand delivered to Peter Perperas after final acceptance of complete order.
 - Warranty forms properly executed.
 - Four (4) keys for each vehicle shall be furnished (each vehicle shall have an independent key code). Successful bidder must supply a key code listing for each vehicle identification number. **NO EXCEPTIONS**
 - Four (4) keys, keyed alike for toolboxes or similar compartments shall be furnished for each vehicle. **NO EXCEPTIONS**
 - State MVC (Motor Vehicle Commission) required inspection stickers shall be provided with each vehicle upon delivery.
 - Federal Safety Inspections shall be performed and stickers shall be attached to the vehicles prior to delivery.
 - **All vehicles being delivered shall have a dealer plate affixed to the vehicle. Under no circumstances shall a temporary registration (30 temp tag) be attached to the vehicle. The 30 day temp tag shall be hand delivered along with the invoice and all paperwork to Peter Perperas upon delivery.**
 - It shall be the responsibility of the awarded vendor that all tolls, when applicable be paid when making delivery to the Authority.

- Delivery of all units fully completed and fully compliant shall be made no later than two hundred forty (240) days after receipt of Purchase Order.

E. All units shall be delivered with a minimum of a half tank of fuel.

F. Deliveries made directly from the manufacturer to the Authority shall **not** be acceptable.

WARRANTY: All units delivered must be guaranteed to be free from defects in materials, design and workmanship for a minimum of one (1) year from the time of acceptance by the New Jersey Turnpike Authority. All warranties shall start upon written acceptance of units by the New Jersey Turnpike Authority. Warranty must include service availability from any manufacturers authorized dealer establishment most closely located to Parkway and Turnpike area. This repair facility may not be further than 100 miles from Telegraph Hill Central Maintenance Facility in Holmdel, NJ 07733 or Central Shops Maintenance Facility located in Hightstown, NJ 08520. If warranty service is required, the vendor who supplied the unit shall provide for pickup, delivery and repair of unit at no charge to the New Jersey Turnpike Authority. The vendor shall also have a program to include an in-house warranty. All warranty periods shall start from date of acceptance of unit by the New Jersey Turnpike Authority.

EXCEPTION SHEET: Exception sheet is furnished with each set of specifications. Bidders making exceptions must note exceptions by item and indicate substitution in lieu and submit with bid, detailed specifications on the substitution. If the vendor is submitting an alternate product, component, feature or part to what is referenced in the specifications, the proposals **must** be accompanied by descriptive literature, marked and indicate the exact items to be furnished, with an engineering drawing of the same. **Failure to supply information requested may result in rejection of bid.** Where no exception is taken, the word "None" shall be neatly printed or typed on the exception sheet. **Failure to supply information and/or failure to complete the bidder's exception spaces in the prescribed manner may disqualify bid. It shall be understood that if no exception is taken, the vendor shall supply all material exactly as specified. No substitution will be permitted after receipt of bids.**

UNIT INFORMATION FORM: Vendor shall complete the entire Unit Information Form. **Failure to complete form may result in rejection of bid.**

MANUFACTURER'S PRODUCTION SHEET: The vendor shall furnish one (1) copy of the actual Factory Production Sheet for each unit provided. The copies of the Factory Production Sheet shall be submitted at the time of the Authority's inspection of the unit.

TRAINING: It shall be the responsibility of the successful bidder to supply all safety, operational and service training to New Jersey Turnpike Authority personnel in accordance with all applicable ANSI and OSHA regulations. The safety and operational training shall consist of a complete review and understanding of the manufacturer's owner manual, along with actual operation of equipment. The instructor shall emphasize all proper uses for safe operation. The training shall include but not limited to all general troubleshooting of the hydraulic system and associated electronics. The instructor shall also emphasize the proper use of tools and test equipment along with general shop safety. The service seminars shall be similar to factory and

manufacture type schools. The training shall be scheduled and take place at one (1) site, eight (8) hours designated by the New Jersey Turnpike Authority.

LABELS: Plastic stick-on labels shall not be acceptable.

ADVERTISEMENTS: No Dealer advertisements shall appear on unit or any other related equipment.

ACCESSORIES: All accessories shall be manufacturer installed when the item is available from the manufacturer.

FACILITIES: Bidders shall represent a manufacturer, which has in operation a factory adequate for the manufacture of the equipment, which it proposes to furnish. The manufacture(s) whose associated equipment or products are bid shall have a full service warranty and parts supply facility that can guarantee availability of parts within 24 hours after telephone order and shall be located within a 100 mile radius of either Central Shops Maintenance Facility (exit 8 on the NJ Turnpike) located in Hightstown, NJ 08520 or Telegraph Hill Central Maintenance Facility (exit 116 on the GSP) located in Holmdel, NJ 07733. This facility will be required to establish an in-house warranty program and provide all warranty work related to the equipment in the bid proposal. The bidder shall submit the locations, names and telephone numbers of people who are authorized to service the equipment or who can be reached for emergency service.

Location_____

Phone #_____

Contact_____

Name & Title

**SPECIFICATIONS: ATDMAU-2015
ARTICULATING TELESCOPING DUAL-MAN AERIAL UNIT**

BIDDER'S INSTRUCTIONS

IT SHALL BE THE BIDDER'S RESPONSIBILITY TO CAREFULLY EXAMINE EACH ITEM OF THE SPECIFICATION. BIDDERS MUST INDICATE WHETHER THEY COMPLY OR NON-COMPLY FOR EACH LINE ITEM IN THE SPECIFICATION. FAILURE TO PROVIDE A COMPLETED BID MAY CAUSE REJECTION OF BID. ALL NON-COMPLY RESPONSES AND/OR BIDDERS PROPOSED "APPROVED EQUIVALENTS" MUST BE FULLY EXPLAINED ON EXCEPTION FORM, NOTING SECTION AND ITEM. FAILURE TO EXPLAIN NON-COMPLY RESPONSES OR FAILURE TO SUPPLY DETAILED LITERATURE/BROCHURES ON THE BIDDERS PROPOSED "APPROVED EQUIVALENTS" MAY CAUSE REJECTION OF BID. WHERE "MINIMUM/MAXIMUM" IS SPECIFIED, BIDDERS MUST PROPOSE AT LEAST THE MINIMUM/MAXIMUM SIZES OR THE BID MAY BE REJECTED.

	COMPLY	
	YES	NO
GENERAL:		
A. 2015 or new current International Model 4300 or approved equivalent SBA (Set Back Axle) 4 x 2, 6-wheel configuration cab-chassis, utility body, and a minimum 60' working height articulating, telescoping, and insulated aerial unit and accessories.		
B. Bidders must provide detailed specifications, technical sheets, and brochures describing exact equipment (chassis, body, aerial unit, and all accessories) that shall be provided.		
C. All standard and optional equipment shall be Original Equipment Manufacturers (OEM) items, when available. NO EXCEPTIONS		
FRAME:		
A. One piece 120,000 psi minimum .		
B. Bolt-on or welded frame sections shall not be acceptable.		
C. 2,526,000 RBM (Resisting Bending Movement) minimum .		
D. Huck fasteners shall be used for all cross members, fuel tank, and battery box brackets.		
E. Heavy-duty front bumper and bolt-on tow hooks with opening through bumper.		
F. Bolt-on front tow hooks with opening through the bumper. One right and one left, within easy access to afford quick operator hook up of tow chain. Hooks shall be of drop forged steel. Grade 8 bolts shall be use to attach hook to chassis. Weld on hooks shall not be acceptable.		
G. Wheelbase shall be 175", cab to axle shall be 108" and AF shall be as required for body.		

	COMPLY	
	YES	NO
H. 33,000 lbs. GVWR minimum .		
I. The Authority reserves the right to determine final CA and AF dimension at issuance of purchase order.		
FRONT AXLE:		
A. 12,000 lbs. minimum capacity front axle.		
B. Weight capacity of front axle must be able to accommodate body, aerial unit and all equipment specified in this bid package.		
FRONT SUSPENSION:		
A. 12,000 lbs. minimum capacity front suspension.		
B. Taper-leaf front springs with shock absorbers.		
C. 2,000 lbs. capacity auxiliary front springs.		
REAR AXLE:		
A. 21,000 lbs. minimum capacity with driver controlled main locking differential.		
B. Axle switch shall be back-lighted.		
C. An automatic disengage feature shall be supplied to disengage the locking mechanism after the vehicle reaches a speed of 25 mph.		
D. Factory installed synthetic gear lube with magnetic drain plug shall be provided.		
E. Axle ratio shall enable vehicle to cruise at 65 mph at maximum GVWR.		
REAR SUSPENSION:		
A. 23,500 lbs. minimum capacity vari-rate rear springs.		
B. Include 4,500 lbs. capacity auxiliary springs.		
BRAKES:		
A. ABS anti-lock brakes.		
B. Air dryer and moisture ejector shall be supplied on wet tank.		
C. "S" type cam brake shoes.		
D. 13.2 cubic foot gear driven air compressor with dual air supply gauges.		
E. Air pressure gauges shall be located in instrument cluster.		
F. Automatic slack adjusters shall be provided.		
G. All air lines shall be color-coded.		
H. Provide dust shields on front and rear brakes.		
I. Parking brake alarm shall be supplied. Horn shall sound when parking brake is not set with ignition off and any door opened.		
STEERING:		
A. Full hydraulic power steering.		
B. Steering column shall be tilt style.		
EXHAUST SYSTEM:		
A. Horizontal diesel particulate filter shall be located by right frame rail.		
B. Exhaust pipe shall be horizontally mounted on right frame rail back of cab.		
C. A dash-mounted switch shall be provided to inhibit diesel particulate filter regeneration.		

	COMPLY	
	YES	NO
ELECTRICAL:		
A. Programmable electrical system with self-diagnostics. System shall be designed to isolate electrical problems on the input/output side of circuit and display fault codes. Color coded and continuously numbered wiring.		
B. All electronically controlled accessory equipment shall be interfaced to a Body Integrated Remote Power Module mounted inside cab; up to 6 outputs and 6 inputs, maximum 20 amps per channel, maximum 80 amps for each required module. (Includes 2 dash-mounted switch pack with 6 switches latched/labeled and back-lighted) with this system including but not limited to switches, controls and indicators. Anticipated provisions shall be communicated to the chassis manufacture prior to chassis build.		
C. All circuit breakers shall be protected by manual reset circuit breakers and shall be mounted in the center control panel.		
D. Two (2) 12-volt 1850 CCA maintenance free batteries with over crank protection.		
E. AM/FM radio with weather band, clock, and speakers.		
F. Turn signal switch shall include “flash to pass” feature.		
G. Daytime running lights, fender mounted dual faced amber/amber directional lights in addition to front corner directional shall be provided.		
H. The following lights shall automatically turn on when wiper switch is engaged: <ul style="list-style-type: none"> • Headlights • Taillights • Marker lights 		
I. Five (5) LED cab marker lights shall be provided.		
J. Wipers shall have two (2) speeds with washer and intermittent feature. Wiper control shall force wipers to their slowest intermittent speed when parking brake is set and wipers are left on for more than 30 seconds.		
K. 185-amp Leece-Neville BLP2361H brushless, pad mounted with remote voltage sensor or approved equivalent alternator.		
L. Gauges & Lights: <ul style="list-style-type: none"> • Oil pressure • Water temperature • Warning lights • Voltmeter • Speedometer • Tachometer • Odometer • Trip miles • Engine hours • Trip hours 		
M. Dual electric horns.		
N. Supply and install a Preco 45-AA or approved equivalent back-up alarm.		

	COMPLY	
	YES	NO
O. Body builder harness shall be located outside of cab. Included shall be stop, tail, turn, and marker light circuits, ignition controlled auxiliary feed, and ground.		
P. Chassis manufacture shall supply 2-way radio wiring with 20 amp fuse protection. Shall include 5 amp fuse and be routed to overhead radio console.		
Q. A weatherproof module for body builder connections shall be located inside the cab.		
R. All switches must be back-lighted and (OEM) labeled.		
S. All electrical powered auxiliary equipment not installed by chassis manufacturer shall be wired in accordance with section A & B (ELECTRICAL) and include proper circuit protection. All wiring shall be installed in a weather tight junction box or weather pack connector. Solder-less connectors is unacceptable. Any holes drilled for installation of accessories, wiring, brackets, etc. shall be properly primed, sealed with silicone and painted prior to installation to prevent rust.		
T. Head lights shall automatically come on with wipers.		
U. Test exterior light switch shall be installed by chassis manufacturer. The switch shall cycle all the lights on the chassis except for reverse lights. Included shall be high/low beam, turn signals, and marker lights.		
V. In addition to the control switch, all lighting and accessories shall turn off with ignition key "off" except for Federal D.O.T. requirements.		
W. It shall be the responsibility of the body supplier to ensure capability of installed equipment with switches provided by chassis manufacturer. The following switches shall be provided by the chassis manufacturer and will be incorporated in the chassis standard wiring and circuit protection: NO EXCEPTIONS <ul style="list-style-type: none"> • Front rotators • Rear strobes 		
ENGINE:		
A. Electronic 6-cylinder turbo-charged diesel engine.		
B. 260 minimum horsepower @ 2,200 rpm.		
C. 660 lb/ft torque minimum @ 1,300 rpm.		
D. 466 cubic inch displacement minimum .		
E. Heavy-duty starter with over crank protection.		
F. Cruise control integral with steering wheel.		
G. Provision for remote mounted engine control shall include wiring for body builder installation of PTO controls, ignition switch controlled.		
H. Heavy-duty radiator.		
I. Ethylene Propylene Diene Monomer (EPDM) or approved equivalent hoses.		
J. Constant torque heat shrink radiator clamps.		
K. Single element air cleaner, integral dash-mounted air restriction gauge.		
L. 120-volt engine block heater with weather-protected flip plug cover		

	COMPLY	
	YES	NO
located under driver's door.		
M. Extended long life coolant protected to at least -40°.		
N. Low coolant level warning light and audible alarm.		
O. Automatic shutdown system for oil pressure, coolant temperature, and coolant level with a 30 second delay and auto override.		
P. Heated fuel/water separator.		
Q. Fuel pressure sensor.		
TRANSMISSION:		
A. Allison 3000 RDS or approved equivalent.		
B. Five (5) forward speeds, automatic with dash-mounted push button control.		
C. Include transmission oil cooler and temperature gauge.		
D. Synthetic transmission fluid shall be used and installed by OEM.		
E. Furnish PTO provision and dash-mounted temperature gauge.		
F. Chassis manufacturer installed PTO accommodation for electric cover hydraulic PTO with dash-mounted, back-lighted switch and indicator light in gauge cluster. Wiring shall be incorporated and over-speed protection programmed within the OEM electrical system.		
FUEL TANK:		
A. 50-gallon minimum capacity aluminum fuel tank shall be mounted under cab and include stainless steel straps.		
B. Thermostat controlled electric fuel heater and filter with filter restriction change indicator.		
C. Fuel tank shall be labeled in 1" high green letters " DIESEL FUEL ONLY ".		
D. Fuel tank vent tube shall be attached to a bracket via zip-tie.		
FRONT TIRES & WHEELS:		
A. Two (2) Goodyear or approved equivalent 11R22.5, 14-ply highway tread black wall radials.		
B. Hub piloted black powder coat paint 8.25" steel disc wheels.		
REAR TIRES & WHEELS:		
A. Four (4) Goodyear or approved equivalent 11R22.5, 14-ply highway tread black wall radials.		
B. Hub piloted black powder coat paint 8.25" steel disc wheels.		
SPARE TIRES & WHEELS:		
A. One (1) spare tire shall be supplied with each vehicle ordered in this bid package.		
B. Spare tire shall be mounted on wheel, balanced, and identical to make and model supplied on vehicle.		
CAB:		
A. Conventional galvanized steel cab.		
B. Cab rear air bag suspension.		
C. Hood shall be a 3-piece design with stationary grille.		

	COMPLY	
	YES	NO
D. Tinted glass all around.		
E. Vented windows that open.		
F. Odometer shall display miles, trip miles, engine hours, trip hours, and engine/vehicle system codes.		
G. Air-operated, high-back vinyl driver's seat with headrest and lumbar support and inboard armrest.		
H. High-back vinyl non-suspended passenger seat with headrest.		
I. 3-point orange colored seatbelts with automatic retractors.		
J. Overhead console with radio pocket wired as described in paragraph Q of electrical section.		
K. Front storage pockets.		
L. Dome light, left/right courtesy lights shall activate when doors are opened.		
M. Dual sun visors.		
N. In-dash cup holder.		
O. Interior grab handles-both sides.		
P. Chrome exterior grab handle with rubber insert-drivers and passenger side of cab.		
Q. Exterior mirrors shall be 16" x 7" with break-away style "C" stainless steel brackets and convex mirrors. A look down 6" x 10" panoramic mirror shall be mounted above passenger door. Both primary mirrors shall be motorized and controlled by a switch located in cab within easy reach of the driver. Primary and convex mirrors shall be thermostatically heated.		
R. HVAC system shall include heater/defroster/air conditioning. Air conditioning system shall have self-diagnostic features with dash displayed faulty codes.		
S. Standard instrumentation package.		
T. Hood wheel well rubber fender extensions shall not be acceptable.		
PINTLE HOOK & PLATE:		
A. Rear pintle hook and plate shall be installed and include a suitable cotter pin to facilitate locking the release. The cotter pin shall be attached to the pintle hook assembly by means of a light duty chain to prevent the loss of the cotter pin.		
B. A ½" thick by at least 36" wide formed steel plate, full width of chassis frame rails, with a 3" return flange at the bottom shall be bolted to the chassis frame.		
C. Bottom and side support gussets shall be included.		
D. Two (2) swivel ¾" cold rolled steel "D" loops, 3" i.d. minimum shall be attached to the bottom flange.		
E. Properly sized grade 8 bolts shall be used throughout the installation.		
F. The pintle hook height shall be 26" from ground to center of hook.		
G. A non-metallic weatherproof seven (7) wire trailer socket shall be mounted through the hook plate on the upper left side of the pintle hook and wired to the chassis as outlined in Specifications: 7PTC. Exact location shall		

	COMPLY	
	YES	NO
be determined by contacting the NJTA Inspector prior to mounting.		
H. The pintle hook shall be rated at a minimum of 20 tons.		
I. An electronic brake controller in addition to the ABS brake controller shall be cab mounted and wired into the seven (7) wire plug as per Specifications: 7PTC. Exact location shall be determined by contacting the NJTA Inspector prior to mounting.		
LIGHTS AND REFLECTORS:		
A. Lights and reflectors shall comply with New Jersey State DOT Regulations.		
B. Lights shall be LED, where applicable.		
MISCELLANEOUS:		
A. Provide in cab a dry chemical 5 lb “UL” listed fire extinguisher suitable for ABC class fires.		
B. Provide in cab a DOT approved reflective triangle kit.		
PAINT:		
A. All metal parts shall have the mill scale and oil removed by means of a high-pressure chemical cleaner prior to painting.		
B. The top of the hood shall be painted non-reflective flat black.		
C. All frame and running gear shall be painted manufacturers black.		
D. The other sections of the cab shall be painted with DuPont Dulux Omaha Orange Enamel # 93-082 or approved equivalent. Paint shall be applied in a two-step process with the orange base coat and additional polyurethane overcoat.		
E. Wheels, bumper, battery box, air tanks, and engine oil pan shall be powder coated painted.		
DIAGNOSTIC REPAIR:		
A. Two (2) complete sets of factory diagnostic and repair vehicle interface software, to include all necessary cabling and connections for a laptop computer shall be supplied.		
MANUALS:		
A. Two (2) of each of the following manuals for cab/chassis shall be supplied in either paper form or computer disc upon delivery: Operation, Repair, Maintenance, Parts, and Electrical for each vehicle ordered in this bid.		
WARRANTY:		
A. Engine shall be covered for seven (7) years/150,000 miles/5400 hours including all electronic engine components and injectors at 100% parts and labor.		
B. Cab shall be covered for five (5) years unlimited miles for perforation, corrosion, and structure.		
C. The frame shall be covered at 100% parts and labor for seven (7) years/unlimited miles for cracks.		
D. The transmission shall be covered for five (5) years/unlimited mileage at 100% parts and labor.		

	COMPLY	
	YES	NO
E. All warranties shall start upon date of acceptance by the New Jersey Turnpike Authority.		
AERIAL UNIT SPECIFICATIONS:		
A. 55' bottom of bucket, 60' working height, articulating, telescoping, and insulated aerial tower with a dual-man single bucket and accessories.		
B. The unit must be tested and meet OSHA and ANSI A92.2 2009 standards and all applicable DOT and FMVSS safety regulations.		
C. The unit shall have a stability test to be done on a 5° slope front-to-back and side-to-side.		
D. The unit shall have a slope indicator for both, side-to-side and front-to-back.		
E. These indicators shall be stamped stating at what "final" degree the unit was tested and passed.		
F. Height to bottom of basket: 55' high minimum .		
G. Working height: 60' high minimum .		
H. Horizontal side reach: 37' minimum .		
I. Capacity of bucket: 600 lbs. minimum .		
J. Overall stowed height: 12' 8" maximum .		
K. Successful bidder shall provide weight study of unit. NO EXCEPTIONS		
L. Aerial unit shall be a combination articulating and telescoping design.		
M. Category C 46KV rating per ANSI A92.2.		
N. Outriggers: <ul style="list-style-type: none"> Unit shall be capable of passing OSHA stabilization tests with four (4) hydraulic outriggers. Front outriggers shall be A-frame type with swivel feet. Rear outriggers shall be H-frame with swivel feet. Outriggers shall be structurally linked to a full subframe. 		
O. Aerial device shall be painted with DuPont Dulux Omaha Orange Enamel # 93-082 or approved equivalent. Paint shall be applied in a two-step process with the orange base coat and additional polyurethane overcoat prior to being assembled. NOTE: Inner surface of fiberglass booms shall be coated with clear urethane to seal fiberglass surface.		
TORQUE INDICATOR:		
A. All critical fasteners on aerial unit must be torque seal marked for a visual inspection for bolt torque condition.		
PLATFORM:		
A. The fiberglass platform shall be 24" x 48" x 42" deep with an inside and outside step for easy access.		
B. Platform liner shall be installed and tested to 50 KV.		
C. Foam filled vinyl cover for 24" x 48" basket.		
D. Provide a liner/platform scuff pad with a non-skid surface and integral step to fit liner.		
E. Platform shall store on body cargo floor with rubber cushion support.		

	COMPLY	
	YES	NO
HYDRAULIC PLATFORM ROTATION:		
A. The hydraulic platform shall rotate a full 180°.		
B. The control for the platform to rotate shall be an interlocking safety handle.		
HYDRAULIC PLATFORM LEVELING:		
A. Platform leveling shall be controlled automatically.		
B. The platform leveling system can be manually activated from the upper and lower controls to adjust platform leveling, and to tip the platform for clean-out.		
FALL PROTECTION:		
A. Two (2) large size body harness and lanyards shall be provided.		
B. The anchor for the lanyards shall be attached to the upper platform support.		
OUTER/INNER BOOM ASSEMBLY:		
A. The outer/inner boom assembly shall include an outer boom, telescopic inner boom, an extension system, and hose assemblies.		
B. The outer boom shall consist of a steel section and an over lying fiberglass section providing insulation even when the inner boom is fully retracted.		
C. The telescoping inner boom shall be made of fiberglass and housed within the outer boom.		
D. The inner boom shall be able to be easily removed and disassembled for service and inspection.		
E. The extension system shall consist of cylinders, valves, and rollers/chains housed within the boom assembly.		
F. Hoses routed through the outer and inner boom assembly shall be non-conductive and fully contained within the boom assembly.		
G. The telescoping outer and inner boom assembly shall articulate from a minimum of 25° below horizontal to minimum of 85° above horizontal.		
H. The outer and inner boom assembly shall be offset to one side providing easy access to the platform.		
I. A boom support cradle and a ratcheted type boom tie-down strap shall be supplied.		
LOWER BOOM ASSEMBLY/LOWER BOOM INSERT:		
A. The lower boom assembly shall be designed of high strength steel.		
B. The lower booms range of articulation begins at horizontal and shall sweep to a minimum of 92° above horizontal.		
C. Lower boom shall have a compensation link forming (parallelogram linkage) to maintain the knuckle at a constant angle to turret.		
D. Inside the fiberglass insert shall be an insulation gap between the steel sections, which shall be filled with injected adhesive filling any voids.		
E. Upon cure of adhesive additional bolts shall be installed for added strength.		
F. Stainless steel test studs shall be supplied as permanent test points for		

	COMPLY	
	YES	NO
shunting the lower boom insert during ANSI dielectric testing.		
G. All fiberglass shall be wound to provide structural strength and integrity for safe boom operations having little or no flex.		
H. Inside of the entire fiberglass boom sections shall be sealed with clear non-conductive urethane to prevent moisture from penetrating into fiberglass.		
TURRET:		
A. The turret wings shall be designed for strength and rigidity.		
B. The bearing cover shall be continuous weld, keeping out moisture and preventing foreign materials from obstructing rotation of the turret.		
CONTINUOUS ROTATION:		
A. Rotation shall be continuous and unrestricted in either direction.		
B. Bolts holding the lift to the rotation bearing and the rotation bearing to the pedestal shall be SAE Grade 8.		
C. These bolts shall be marked with torque seal indicators to provide easy means of detecting of any loosening upon inspection.		
PEDESTAL:		
A. The pedestal shall be tubular and be reinforced.		
B. Hydraulic oil reservoir shall be an integral part of the pedestal.		
C. Pedestal shall be designed to clamp to the full depth of the chassis frame.		
D. Mounting bolts shall be high-strength steel threaded long bolts.		
E. At least one (1) access panel shall be located on the pedestal.		
OUTRIGGERS:		
A. The A-frame outriggers shall be attached to the pedestal.		
B. The outriggers shall be designed with all necessary pilot and check valves.		
C. There shall be separate operating controls for each outrigger.		
D. Maximum extension of outriggers shall be no wider than 148".		
E. A maximum of 9" penetration with 17" of ground clearance based on a 36" high frame height.		
F. Pivot feet shall be included.		
AUXILIARY OUTRIGGERS:		
A. H-frame outriggers shall be mounted to the frame and be equipped with all necessary pilot and check valves.		
B. There shall be separate operating controls for each outrigger.		
C. Maximum extension of outriggers shall be 91".		
D. A maximum of 9" penetration with 17" of ground clearance based on a 36" high frame height.		
E. Pivot feet shall be included.		
OUTRIGGER CONTROLS:		
A. The controls for the outriggers shall be mounted at the rear of the truck at the street side and curb side and shall operate independently of each other.		
LEVEL INDICATORS:		
A. Provide inclinometer on rear and side of unit for providing the ANSI A92-		

	COMPLY	
	YES	NO
2 definitions on increments for unit set-up with 5° parameters.		
OUTRIGGER INTERLOCK/WARNING SYSTEM:		
A. Interlock system shall allow aerial operations when all four (4) outriggers are set in place.		
B. Outriggers shall not be allowed to be raised if aerial device is not properly stored in boom rest.		
C. Four (4) outrigger sag lights shall be supplied to indicate outrigger has drifted or not completely stored for transport.		
D. An outrigger audible alarm system shall be provided when any outrigger is in upward or downward motion.		
E. A boom out of rest light shall be installed to indicate boom is not completely stored in boom rest for road travel.		
F. A visual warning system shall be installed consisting of a red lens light with a diameter of at least 3" mounted on the truck's dash. The light shall remain on when the aerial device or outriggers are not in the stowed position for travel.		
G. A "lock out" system must be installed preventing the truck from being engaged in gear while the aerial device or outriggers are not in the stowed travel position.		
CYLINDERS:		
A. The upper and lower cylinders shall have integral holding valves to prevent creep down of booms and lock the booms in position in the event of hose failure.		
HYDRAULIC OIL RESERVOIR:		
A. Hydraulic oil reservoir shall be designed as an integral part of the pedestal.		
B. The reservoir shall have anti-splash baffles and easy to read sight level gauges.		
C. The hydraulic oil reservoir shall be of sufficient capacity to effectively and efficiently operate aerial functions.		
CONTROL VALVES:		
A. Full pressure and full hydraulics controlled by a single joystick at the platform controls shall direct: rotation, outer/inner boom assembly's raise, lower, and extension functions.		
B. An emergency stop shall be located at the upper control and is a separate control valve and clearly labeled.		
C. The platform leveling control with safety handle can be manually activated from the upper or lower controls to adjust the platform leveling, tip the platform or tilt the platform.		
D. The lower controls shall be full pressure, full hydraulic multi-lever and equipped with a manual selector valve to override the upper controls.		
E. A platform tilt control shall be in addition to the aerial movement controls.		
F. A single stick control shall operate the following functions: upper boom raise/lower, rotation at base left/right, and lower boom raise/lower.		

	COMPLY	
	YES	NO
G. The extension boom shall operate on a separate control handle with interlocking safety handle.		
HOSES AND FITTINGS:		
A. Hoses routed through the boom shall be high-pressure, non-conductive hoses and swaged hose end fittings.		
B. Retainers shall be used to separate hoses inside boom to preventing chafing.		
C. Hoses shall be securely housed inside boom and nylon sleeves shall be installed over hoses at points of movement.		
D. All wiring passing through an opening must have a protective edge or grommets and holes must be sealed with silicone.		
E. All hydraulic hoses shall be installed with appropriate fittings, where necessary to alleviate sharp angles.		
F. Support brackets shall be provided to protect hoses from damage and abrasion, cutting or impact.		
HYDRAULIC SYSTEM:		
A. The hydraulic system shall be of sufficient rated pressure to accommodate the aerial unit's functions.		
B. All hydraulic lines shall be of sufficient strength capacity.		
C. Hydraulic power shall be a hot shift heavy-duty PTO type operated off the transmission.		
D. The PTO shall have a light on console that shall illuminate when PTO is engaged.		
E. PTO hour meter shall be installed on console for easy viewing.		
F. PTO shall disengage when brakes are released for travel.		
HYDRAULIC TOOL OPERATION AT PLATFORM:		
A. System shall be designed to use open-center hydraulic tools.		
B. The tool circuit shall provide a minimum of 6 gpm @ 2,250 psi.		
C. One (1) set of HTMA (Hydraulic Tool Manufacturer Association) type drip-less couplers shall be supplied at the platform hydraulic tool circuit.		
ELECTRICAL INSULATION:		
A. The outer/inner boom assembly shall be tested and certified for electrical work at Category B 69KV in accordance with ANSI A92.2-2009 requirements.		
B. The outer/inner boom assembly shall be fully insulated in the retracted position.		
C. The lower boom insert shall be tested per ANSI A92.2-2009 requirements.		
EMERGENCY POWER:		
A. The system shall consist of a hydraulic pump driven by a 12-volt DC motor powered by the truck engines battery.		
B. This system shall be connected in parallel with the main pump and be designed for non-continuous operation.		
TWO-SPEED MANUAL THROTTLE CONTROL:		

	COMPLY	
	YES	NO
A. The two-speed manual throttle shall be able to give the operator a choice of engine idle speed or faster engine speed when required.		
B. Manual throttle control shall be designed to operate only if truck ignition is in the “run” position and the master switch is turned “on”.		
C. Air cylinder at the platform and a toggle switch at the pedestal shall be used to energize the manual throttle control.		
D. Provide a toggle switch at the lower control station and the tail shelf for use of the two-speed throttle.		
ACCESSORIES:		
A. All auxiliary hydraulic tool power shall be provided and located at the platform controls including control valve for operation.		
B. Upper tool circuit shall include a quick-disconnect coupler.		
C. Tool flow shall be 6 gpm with a tool relief set to 2,000 psi.		
D. A heavy-duty tool tray shall be provided for the basket.		
E. Engine start/stop control shall be located at the basket and at the lower controls. <ul style="list-style-type: none"> • Circuit shall be designed so that the lift cannot be operated unless the key is in the truck ignition and in the “run” position. • A master switch shall be located in the cab. • An air cylinder at the platform and a toggle switch at the pedestal (with switch guards) shall be provided to actuate the engine start/stop system. 		
F. All required and standard decals shall be supplied on unit.		
G. Hour meter for operation of aerial unit shall be supplied.		
H. Awarded vendor must supply certification ratings of boom and test results including vehicle weights upon delivery.		
BODY CONSTRUCTION:		
A. All bidders must supply a complete detailed drawing of body size and all dimensions of compartments and shelving.		
B. The entire body shall be constructed of a minimum of 16-gauge galvaneal steel.		
C. Body floor shall be a minimum of 1/8" thick steel diamond plate coated with black non-skid material.		
D. Tops of compartments shall have galvaneal tread plate coated with black non-skid material.		
E. Doors shall be double-paneled and constructed of at least 18-gauge galvaneal steel and have automotive type replaceable door seals.		
F. Body cross members shall be designed of structural steel.		
G. Body shall be welded and riveted to comprise a single unit.		
H. All welds shall be thoroughly sanded to insure a professional appearance of the finished product.		
I. All sheared edges of the bulkhead and side panels including door openings shall have either lapped or rolled edges.		

	COMPLY	
	YES	NO
J. The forward portion of all door openings shall have water guards to keep rain out while truck is in transit.		
K. Hinges shall be inside type (not exposed to outside of body).		
L. All horizontal doors shall open to 180° with rubber stop bumpers. Built-in water troughs shall carry off rain in the event water gets past the drip moldings.		
M. All horizontal doors shall have coated cable retainers in order to hold door open.		
N. All vertical doors shall have spring loaded door holders that shall hold doors at a 90° angle in the open position.		
O. All doors shall have stainless steel flush-type door handles, slam action single point striker, and cylinder locks.		
P. All locks shall be keyed alike but differently for each vehicle ordered.		
Q. A full length locking device shall be provided for each side of compartment doors (master locking system).		
R. Wheel housings shall be equipped with either metal or rubber fender crowns.		
S. All shelving shall be fabricated from at least 16-gauge galvanized steel and include a 2¼" lip.		
T. All fixed hooks shall be fabricated from a minimum of ¾" steel.		
U. All dividers shall be adjustable on 2" centers.		
V. Rear plain black mud flaps (no advertisements) shall be installed at rear of the body.		
BODY DIMENSION:		
A. Body shall be 156" long plus 26" rear platform extension, and 94" wide.		
B. Body shall fit 108" cab to axle with dual rear wheels.		
C. Wheel chock storage for two (2) wheel chocks shall be designed in body wheel well panels on each side. Four (4) rubber wheel chocks shall be supplied.		
D. Four (4) outrigger pad holders shall be incorporated into body (two on each side). Four (4) DICA D1818 or approved equivalent outrigger pads with handles shall be supplied.		
CURBSIDE COMPARTMENTS:		
A. Front Vertical Compartment: <ul style="list-style-type: none"> • Front vertical compartment shall be 24" wide x 48" high x 18" deep. • Compartment shall have one (1) adjustable shelf. • The 3,000 watt inverter described in this specification shall be mounted at the top of this compartment. • Supply and install two (2) GFI protected outlets in a weather-proof box with flip cover. One (1) at the front compartment on the outside of the body and one (1) at the outside rear vertical compartment. Hardwire these to the inverter with proper circuit protection and protect wiring in covered loom. 		

	COMPLY	
	YES	NO
B. Second Vertical Compartment <u>Area</u>: <ul style="list-style-type: none"> • Second area shall be a cargo step area 24" wide with multiple steps. • Grip strut treads shall be provided. • A full width stirrup step shall be provided at the lower end of the steps extending down from the last step to provide adequate stepping from ground. • Supply assist handles on both sides. 		
C. Third Vertical Compartment: <ul style="list-style-type: none"> • Third vertical compartment shall be 24" wide x 48" high x 18" deep. • Compartment shall have one (1) adjustable shelf with adjustable dividers at the top and six (6) slide-out drawers below shelf. • Drawers shall have removable dividers for each. 		
D. Center Horizontal Compartment: <ul style="list-style-type: none"> • Center horizontal compartment over wheel housing shall be 60" wide x 24" high x 18" deep. • Bottom shall have a divided tray for the full section with adjustable dividers. 		
E. Rear Vertical Compartment: <ul style="list-style-type: none"> • Rear vertical compartment shall be 24" wide x 48" high x 18" deep. • Material hooks in a 1-3-1 pattern shall be mounted in the upper portion. 		
STREET SIDE COMPARTMENTS:		
A. Front Vertical Compartment: <ul style="list-style-type: none"> • Front vertical compartment shall be 24" wide x 48" high x 18" deep. • Compartment shall have three (3) adjustable shelves with adjustable dividers. 		
B. Second Vertical Compartment: <ul style="list-style-type: none"> • Second vertical compartment shall be 22" wide x 48" high x 18" deep. • Three (3) adjustable shelves shall be in the lower portion with high adjustable dividers. 		
C. Third Vertical Compartment: <ul style="list-style-type: none"> • Third vertical compartment shall be 22" wide x 48" high x 18" deep. • Three (3) adjustable shelves shall be supplied in the lower portion with high adjustable dividers. 		
D. Center Horizontal Compartment: <ul style="list-style-type: none"> • Center horizontal compartment over wheel housing shall be 60" wide x 24" high x 18" deep. • Bottom shall have a divided tray for the full section with adjustable dividers. 		
E. Rear Vertical Compartment: <ul style="list-style-type: none"> • Rear vertical compartment shall be 24" wide x 48" high x 18" deep. • Compartment shall have five (5) material hooks in a 1-3-1 pattern. 		

	COMPLY	
	YES	NO
F. Street side compartments shall have plywood lined full length shelf, with door opening 13" x 8" at the rear of the body.		
INVERTER:		
A. Dimensions 3100 watt pure-sine wave power or approved equivalent inverter with two (2) Group 31 battery supply and required circuit tie into chassis.		
B. The 3,000 watt inverter shall be mounted in the upper portion of the front curbside compartment on the body.		
C. A second (200 amp) alternator shall be supplied to support inverter package.		
PLATFORM EXTENSION:		
A. Body shall be designed with a 26" platform extension at the rear of the body.		
B. Extension floor shall be a minimum of 1/8" thick steel diamond plate coated with black non-skid material.		
C. Extension shall have a 5" high thru tunnel with locking doors at each end.		
D. Inverted "U" shaped grab handles shall be mounted on the rear sides of the body.		
E. D.O.T. FMVSS 108 lighting package (9-lamp) package shall be installed in platform extension. (Supply LED type lamps).		
REAR STEP BUMPER:		
A. Rear step bumper with pintle hook cut out, 94" wide x 12" deep with grip strut material for entire tread surface shall be supplied.		
B. Front area shall be supported with steel channel.		
C. One (1) pair of steps on each side at rear of step bumper shall be a 4" wide design with grip strut material.		
INTERIOR "ROPE TYPE" COMPARTMENT LIGHTS:		
A. LED rope type lights shall be installed in all vertical and horizontal body compartments.		
B. A back lit rocker type activation switch shall be installed in cab to operate lights.		
C. Circuit shall be wired through the chassis running light circuit with relay and provide a resettable circuit breaker for protection.		
ROTATOR LIGHTS:		
A. Rotator lights shall be a Class I Arrow Model # 580-00-1 LED or an approved equivalent.		
B. Two (2) lights shall be supplied.		
C. Each light shall be mounted onto a mounting plate sized to fit the base of the light. Each light shall be mounted to a vertical steel tube.		
D. Each complete light assembly shall be mounted behind cab onto chassis frame (one behind passenger side and one behind driver side). Exact location shall be determined by contacting the NJTA Inspector prior to installation.		
E. Each light shall come equipped with a heavy-duty protective guard/cage.		

	COMPLY	
	YES	NO
F. One (1) back lit rocker type activation switch shall be installed in cab to operate rotator and rear warning lights.		
REAR WARNING LIGHTS:		
A. Two (2) Whelen Model 90AA5SAR or approved equivalent LED shall be installed onto the rear portion of the body.		
B. One (1) light shall be mounted on each rear compartment (exact location shall be determined by contacting the NJTA Inspector prior to mounting).		
C. Activation of lights shall be by same switch for rotator lights.		
WORK LIGHTS:		
A. Four (4) work lights shall be installed onto body.		
B. Lights shall be a Betts Model # 315007 halogen work light or approved equivalent.		
C. One (1) work light shall be mounted on each of the top front corner compartments of the body.		
D. One (1) work light shall be mounted on each of the rear corner compartments of the body.		
E. There shall be one (1) backlit rocker type switch located inside the cab to operate all four (4) work lights.		
F. Work lights shall have an independent (weatherproof) toggle switch located on each light in order to activate the lights separately if desired from outside the cab.		
G. Exact location of lights shall be determined by contacting the NJTA Inspector prior to mounting.		
RUST PROOFING:		
A. The complete body shall be rust proofed.		
B. Rust proofing material shall be Ziebart or approved equivalent.		
C. The application of rust proofing material must be done by a facility whose primary business is vehicle and equipment rust proofing.		
D. Vendor must supply a written warranty for each unit.		
LIGHTS AND REFLECTORS:		
A. Lights and reflectors shall comply with NJ State DOT regulations.		
B. Lights shall be LED, where applicable.		
C. D.O.T. approved diamond grade conspicuity marking (red 6", white 6" both 2" high) shall be applied to lower edges of body on both sides including tail shelf.		
PAINTING:		
A. Body shall be painted with DuPont Dulux Omaha Orange Enamel # 93-082 or approved equivalent. Paint shall be applied in a two-step process with the orange base coat and additional polyurethane overcoat.		
B. Inside of body compartments (not shelving, which shall be galvanized) shall be painted with gray/white speckled paint.		
C. Body floor, tail shelf extension, and top of compartments shall be coated with black non-skid material.		

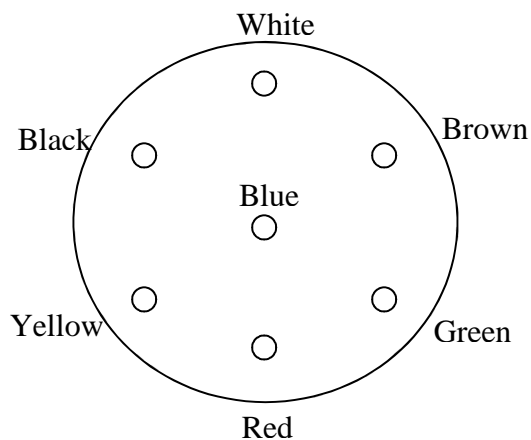
SPECIFICATIONS: 7PTC
7-POLE ROUND PIN TRAILER CONNECTORS ON TRUCKS AND TRAILERS

CONNECTOR MARKING COLOR

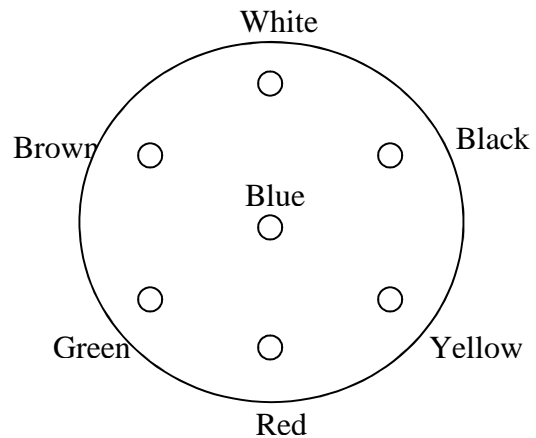
APPLICATION

WHITE.....	GROUND
BLACK.....	TAIL LIGHT
BROWN.....	TAIL LIGHT
YELLOW.....	LEFT TURN SIGNAL
GREEN.....	RIGHT TURN SIGNAL
RED.....	ELECTRIC BRAKE
BLUE.....	12-VOLT BATTERY- WITH 30-AMP AUTOMATIC BIMETAL THERMAL RESET CIRCUIT PROTECTION.

SOCKET MARKINGS



PLUG MARKINGS



FAILURE TO COMPLETE ALL AREAS MAY RESULT IN REJECTION OF BID

UNIT INFORMATION FORM

(Must be submitted by vendor with bid documents)

TRUCK CHASSIS:

YEAR:_____MAKE:_____

MODEL:_____

ENGINE MAKE:_____

MODEL:_____CID:_____HP:_____@_____RPM

ALTERNATOR MAKE: _____MODEL:_____

AMPS:_____

BATTERY VOLTS/AMPS:_____

C.C.A. @ O° F:_____

TRANSMISSION MAKE:_____

MODEL:_____

BACK-UP ALARM MAKE:_____

SERVICING AGENCY:_____

LOCATED AT:_____

TELEPHONE #:_____

CONTACT:_____

Name & Title

AERIAL BUCKET:

YEAR:_____MAKE_____MODEL_____

INSTALLER: _____

SERVICING AGENCY:_____

LOCATED AT:_____

TELEPHONE #:_____

CONTACT:_____

Name & Title

BODY:

YEAR:_____MAKE_____MODEL_____

INSTALLER: _____

SERVICING AGENCY:_____

LOCATED AT:_____

TELEPHONE #:_____

CONTACT:_____

Name & Title

INVERTER:

YEAR:_____MAKE_____MODEL_____

INSTALLER: _____

SERVICING AGENCY:_____

LOCATED AT:_____

TELEPHONE #:_____

CONTACT:_____

Name & Title

INTERIOR COMPARTMENT LIGHTS:

YEAR: _____ MAKE _____ MODEL _____

INSTALLER: _____

SERVICING AGENCY: _____

LOCATED AT: _____

TELEPHONE #: _____

CONTACT: _____

Name & Title

ROTATING LIGHTS:

YEAR: _____ MAKE _____ MODEL _____

INSTALLER: _____

SERVICING AGENCY: _____

LOCATED AT: _____

TELEPHONE #: _____

CONTACT: _____

Name & Title

REAR WARNING LIGHTS:

YEAR: _____ MAKE _____ MODEL _____

INSTALLER: _____

SERVICING AGENCY: _____

LOCATED AT: _____

TELEPHONE #: _____

CONTACT: _____

Name & Title

WORK LIGHTS:

YEAR:_____MAKE_____MODEL_____

INSTALLER: _____

SERVICING AGENCY:_____

LOCATED AT:_____

TELEPHONE #:_____

CONTACT:_____

Name & Title

RUST PROOFING:

MATERIAL_____

INSTALLER: _____

SERVICING AGENCY:_____

LOCATED AT:_____

TELEPHONE #:_____

CONTACT:_____

Name & Title

SERVICE PARTS IDENTIFICATION FORM

Preventative Maintenance Items:			
Private label part number identification shall not be acceptable. A common automotive industry recognizable identification capable of cross referencing with manufactures such as Fram, Hastings, Purolator, Wix, etc. shall only be accepted.			
	Required Amount	OEM Part #	After Market Part #
Engine Group:			
Primary Oil Filter			
Secondary Oil Filter			
Air Filter			
Other			
Primary Fuel Filter			
Secondary Fuel Filter			
Water/Fuel Separator			
Coolant Filter			
Other			
Ignition Group:			
Spark Plug			
Spark Plug Wires			
Other			
Other			
Emissions Group:			
PCV Valve			
Other			
Drive Train Group:			
Transmission Primary Filter			
Transmission Secondary Filter			
Axle Housing Breather			
Other			
Brake Group:			
Compressor Intake Filter			
Air Dryer Desiccant			
Power Take Off Group:			
Hydraulic Filter			
Breather Filter			
Other			
Miscellaneous:			
Left Windshield Wiper			
Right Windshield Wiper			
Rear Windshield Wiper			
Cab Ventilation Filter			

[illegible]

Date _____